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A. Michalak, K. Hermann and M. Witko, Reactive oxygen sites at MoO_3 surfaces: ab initio cluster model studies 366 (1996) 323

G. Kern, J. Hafner and G. Kresse, Atomic and electronic structure of diamond (111) surfaces. I. Reconstruction and hydrogen-induced de-reconstruction of the one dangling-bond surface 366 (1996) 445

G. Kern, J. Hafner and G. Kresse, Atomic and electronic structure of diamond (111) surfaces. II. (2 × 1) and ($\sqrt{3} \times \sqrt{3}$) reconstructions of the clean and hydrogen-covered three dangling-bond surfaces 366 (1996) 464

Equilibrium thermodynamics and statistical mechanics

P. Zeppenfeld, M. Büchel, J. Goerge, R. David, G. Comsa, Ch. Ramseyer and C. Girardet, Structure and phase transitions of xenon monolayers on Cu(110) 366 (1996) 1

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M. Ohno and W. von Niessen, Theoretical study of the valence level photoemission spectrum of C_2H_2 adsorbed on a Ni metal surface 366 (1996) 209

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G.E. Makhmetov, A.G. Borisov, D.Teillet-Billy and J.P. Gauyacq, Resonant charge transfer in grazing atom–metal surface collisions: effect of the presence of steps on the surface 366 (1996) L769

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G.E. Makhmetov, A.G. Borisov, D.Teillet-Billy and J.P. Gauyacq, Resonant charge transfer in grazing atom–metal surface collisions: effect of the presence of steps on the surface 366 (1996) L769

Models of surface chemical reactions

A. Aničić and B. Gumhalter, Assessment of the role of quantal effects in the dynamics of stimulated desorption 366 (1996) 193

F. Moiny, R. Pistis, M. Dumont and R. Dagonnier, Surface reaction kinetics and chemisorption-induced surface restructuring 366 (1996) 360

Models of surface kinetics

J. Kołaczkiewicz and E. Bauer, Behaviour of Rh, Pd, Ir and Pt on the W(110) face above room temperature 366 (1996) 71

J.J. Martínez Jubrías, M. Hidalgo, M.L. Marcos and J. González Velasco, On the surface diffusion of Pt adatoms in acidic solutions 366 (1996) 239

G.F. Cerofolini, Adsorption kinetics and equilibria on reconstructable surfaces 366 (1996) 597

Molecular dynamics

P.C.L. Stephenson, M.W. Radny and P.V. Smith, A modified Stillinger–Weber potential for modelling silicon surfaces 366 (1996) 177

F. Hontinfinde, R. Ferrando and A.C. Levi, Diffusion processes relevant to the epitaxial growth of Ag on Ag(110) 366 (1996) 306

Semi-empirical models and model calculations

I. Jäger, On the determination of bulk diffusion parameters by surface segregation 366 (1996) 166

P.C.L. Stephenson, M.W. Radny and P.V. Smith, A modified Stillinger–Weber potential for modelling silicon surfaces 366 (1996) 177

H. Müller and V. Kempter, Modeling the ion impact electron spectra from slow H^+ and O^+ collisons with clean and alkalated W(110) surfaces 366 (1996) 343

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G. Eilmsteiner and A. Winkler, Rovibrational state distribution of deuterium molecules resulting from D-atom interaction with Ni(110) 366 (1996) L750

Atom–solid scattering and diffraction – elastic

P. Zeppenfeld, M. Büchel, J. Goerge, R. David, G. Comsa, Ch. Ramseyer and C. Girardet, Structure and phase transitions of xenon monolayers on Cu(110) 366 (1996) 1

S. Miret-Artés, Elementary resonance processes in atom–surface scattering 366 (1996) L735

Atom–solid scattering and diffraction – inelastic

S. Miret-Artés, Multiphonon contributions to diffracted intensities and resonance profiles in atom–surface scattering 366 (1996) L681

S. Miret-Artés, Elementary resonance processes in atom–surface scattering 366 (1996) L735

Atomic force microscopy

G.C. Hsueh, C.M. Reaves, S.P. DenBaars and W.H. Weinberg, Power spectral density analysis of strain-induced InP islands on GaInP/GaAs(100) 366 (1996) 129

Yuan Chunbo, Li Xinmin, Ding Desheng, Li Bin, Zhang Hongjie, Lu Zuhong, Liu Juzheng and Ni Jiazuan, Lanthanide ion induced formation of stripes domain structure in phospholipid Langmuir–Blodgett monolayer film observed by atomic force microsco y 366 (1996) L729

M. Reichling, R.M. Wilson, R. Bennewitz, R.T. Williams, S. Gogoll, E. Stenzel and E. Matthias, Surface colloid evolution during low-energy electron irradiation of $CaF_2(111)$ 366 (1996) 531

Auger electron spectroscopy

R. Franchy, T.U. Bartke and P. Gassmann, The interaction of oxygen with Nb(110) at 300, 80 and 20 K 366 (1996) 60

A. Grossmann, W. Erley and H. Ibach, Erratum to "CO on Ni(100): observation of a high-frequency IR band at 2200 cm^{-1}" [Surface Science 355 (1996) L331] 366 (1996) L742

S. Speller, J. Kuntze, T. Rauch, J. Bömermann, M. Huck, M. Aschoff and W. Heiland, The (1×2) and (1×4) structure on clean Pt(110) studied by STM, AES and LEED 366 (1996) 251

J. Lüdecke, A.R.H.F. Ettema, S.M. Driver, G. Scragg, M. Kerkar, D.P. Woodruff, B.C.C. Cowie, R.G. Jones and S. Bastow, The structure of sulphur adsorption phases on Ni(111) studied by X-ray standing wavefield absorption 366 (1996) 260

P.D. Cobden, N.M.H. Janssen, Y. van Breugel and B.E. Nieuwenhuys, Non-linear behaviour in the $NO–H_2$ reaction over Rh(111) 366 (1996) 432

E.A. Khramtsova, A.A. Saranin, K.V. Ignatovich and V.G. Lifshits, Comparative study of the atomic hydrogen interaction with Si(110)"4×6"-Al and Si(111)$\sqrt{3} \times \sqrt{3}$-Al surfaces 366 (1996) 501

Desorption induced by electronic transitions (DIET)

Electron stimulated desorption (ESD)

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H. Müller and V. Kempter, Modeling the ion impact electron spectra from slow H^+ and O^+ collisons with clean and alkalated W(110) surfaces 366 (1996) 343

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R. Franchy, T.U. Bartke and P. Gassmann, The interaction of oxygen with Nb(110) at 300, 80 and 20 K 366 (1996) 60
K. Svensson, I. Rickardsson, C. Nyberg and S. Andersson, Step site adsorption and ordering of CO on Ni(510) and Pd(510) 366 (1996) 140
K.D. Lee, C.Y. Kim and J.W. Chung, Evidence of substrate metallization by Li adsorption on the Si(001) surface 366 (1996) L709
V.M. Jiménez, J.A. Mejías, J.P. Espinós and A.R. González-Elipe, Interface effects for metal oxide thin films depo i ted on another metal oxide. II. SnO_2 deposited on SiO_2 366 (1996) 545
V.M. Jiménez, J.P. Espinós and A.R. González-Elipe, Interface effects for metal oxide thin films deposited on another metal oxide. III. SnO and SnO_2 deposited on MgO(100) and the use of chemical state plots 366 (1996) 556

Electron microscopy

M.E. Bowden, D.A. Jefferson and I.W.M. Brown, In-situ observation of perovskite formation on the surface of $Sr3La_2Ti_2O_{10}$ 366 (1996) 317

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Low energy electron diffraction (LEED)

R. Franchy, T.U. Bartke and P. Gassmann, The interaction of oxygen with Nb(110) at 300, 80 and 20 K 366 (1996) 60
Q. Guo, I. Cocks and E.M. Williams, ESDIAD and LEED studies of the clean TiO_2(100) surface 366 (1996) 99
R.-P. Blum, D. Ahlbehrendt and H. Niehus, Preparation-dependent surface composition and structure of NiAl(001): SPA-LEED and NICISS study 366 (1996) 107
K. Svensson, I. Rickardsson, C. Nyberg and S. Andersson, Step site adsorption and ordering of CO on Ni(510) and Pd(510) 366 (1996) 140
J. Lauterbach, R.W. Boyle, M. Schick, W.J. Mitchell, B. Meng and W.H. Weinberg, Erratum to "The adsorption of CO on Ir(111) investigated with FT-IRAS" [Surface Science 350 (1996) 32] 366 (1996) 228
S. Speller, J. Kuntze, T. Rauch, J. Bömermann, M. Huck, M. Aschoff and W. Heiland, The (1 × 2) and (1 × 4) structure on clean Pt(110) studied by STM, AES and LEED 366 (1996) 251
J. Lüdecke, A.R.H.F. Ettema, S.M. Driver, G. Scragg, M. Kerkar, D.P. Woodruff, B.C.C. Cowie, R.G. Jones and S. Bastow, The structure of sulphur adsorption phases on Ni(111) studied by X-ray standing wavefield absorption 366 (1996) 260
E.A. Khramtsova, A.A. Saranin, K.V. Ignatovich and V.G. Lifshits, Comparative study of the atomic hydrogen interaction with Si(110)"4 × 6"-Al and Si(111)$\sqrt{3} \times \sqrt{3}$-Al surfaces 366 (1996) 501

Reflection high-energy electron diffraction (RHEED)

Z.L. Wang, Statistical multiple diffuse scattering from rough surfaces in RHEED – beyond the distorted-wave Born approximation 366 (1996) 377
S.W. Bonham and C.P. Flynn, Resonant RHEED study of Cu_3Au(111) surface order 366 (1996) L760
T. Fujii, D. Alders, F.C. Voogt, T. Hibma, B.T. Thole and G.A. Sawatzky, In situ RHEED and XPS studies of epitaxial thin α-Fe_2O_3(0001) films on sapphire 366 (1996) 579

Transmission high-energy electron diffraction

A.W. Fortuin, P.F.A. Alkemade, A.H. Verbruggen, A.J. Steinfort, H. Zandbergen and S. Radelaar, Characterization of single-crystalline Al films grown on Si(111) 366 (1996) 285

Ion scattering spectroscopy

R.-P. Blum, D. Ahlbehrendt and H. Niehus, Preparation-dependent surface composition and structure of NiAl(001): SPA-LEED and NICISS study 366 (1996) 107

High energy ion scattering (HEIS)

A.W. Fortuin, P.F.A. Alkemade, A.H. Verbruggen, A.J. Steinfort, H. Zandbergen and S. Radelaar, Characterization of single-crystalline Al films grown on Si(111) 366 (1996) 285

Low energy ion scattering (LEIS)

R.-P. Blum, D. Ahlbehrendt and H. Niehus, Preparation-dependent surface composition and structure of NiAl(001): SPA-LEED and NICISS study 366 (1996) 107
V.M. Jiménez, J.A. Mejías, J.P. Espinós and A.R. González-Elipe, Interface effects for metal oxide thin films depo i ted on another metal oxide. II. SnO_2 deposited on SiO_2 366 (1996) 545
V.M. Jiménez, J.P. Espinós and A.R. González-Elipe, Interface effects for metal oxide thin films deposited on another metal oxide. III. SnO and SnO_2 deposited on MgO(100) and the use of chemical state plots 366 (1996) 556

Medium energy ion scattering (MEIS)

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Resonance enhanced multiphoton ionization mass spectroscopy (REMPI/MS)

G. Eilmsteiner and A. Winkler, Rovibrational state distribution of deuterium molecules resulting from D-atom interaction with Ni(110) 366 (1996) L750

Molecular beam epitaxy

D.E. Bürgler, C.M. Schmidt, J.A. Wolf, T.M. Schaub and H.-J. Güntherodt, Ag films on Fe/GaAs(001): from clean surfaces to atomic Ga structures 366 (1996) 295
Y. Yoneda, K. Sakaue, H. Kato and H. Terauchi, Lattice distortion of an $In0.2Ga_{0.8}As$/GaAs superlattice 366 (1996) 337

S.W. Bonham and C.P. Flynn, Resonant RHEED study of $Cu_3Au(111)$ surface order 366 (1996) L760
T. Fujii, D. Alders, F.C. Voogt, T. Hibma, B.T. Thole and G.A. Sawatzky, In situ RHEED and XPS studies of epitaxial thin α-$Fe_2O_3(0001)$ films on sapphire 366 (1996) 579

Molecule–solid reactions

J.I. Colonell, T.J. Curtiss and S.J. Sibener, Coverage dependence of the kinetics for H_2 desorption from Rh(111) 366 (1996) 19
E. Schaar-Gabriel, N. Alonso-Vante and H. Tributsch, STM-photoeffects mediated by water adsorption on photocatalytic (RuS_2, TiO_2) materials 366 (1996) 508

Non-linear optical methods

Sum frequency generation

H. Ishida, K. Iwatsu, J. Kubota, A. Wada, K. Domen and C. Hirose, Infrared–visible sum frequency generation (SFG) spectra of formate and formic acid on Ni(110) surface 366 (1996) L724

Nuclear magnetic resonance

M. Eckhardt, J. Chrost and D. Fick, Adsorption of Li on Si(111) influenced by the phase transition $(7 \times 7) \leftrightarrow (1 \times 1)$ 366 (1996) 275

Photoelectron spectroscopy

O. Henrion, T. Löher, A. Klein, C. Pettenkofer and W. Jaegermann, Low temperature adsorption of water on cleaved GaAs(110) surfaces 366 (1996) L685

Angle resolved photoemission

L.Ö. Olsson, M. Björkqvist, J. Kanski, L. Ilver and P.O. Nilsson, Surface electronic structure of GaAs(311)A studied by angle-resolved photoelectron spectroscopy 366 (1996) 121
K.D. Lee, C.Y. Kim and J.W. Chung, Evidence of substrate metallization by Li adsorption on the Si(001) surface 366 (1996) L709

X-ray photoelectron spectroscopy

S.Y. Li, J.A. Rodriguez, J. Hrbek, H.H. Huang and G.-Q. Xu, Reaction of hydrogen with S/Mo(110) and MoS_x films: formation of hydrogen sulfide 366 (1996) 29
A. Delcorte, P. Bertrand, X. Arys, A. Jonas, E. Wischerhoff, B. Mayer and A. Laschewsky, ToF-SIMS study of alternate polyelectrolyte thin films: Chemical surface characterization and molecular secondary ions sampling depth 366 (1996) 149
V.M. Jiménez, J.A. Mejías, J.P. Espinós and A.R. González-Elipe, Interface effects for metal oxide thin films deposited on another metal oxide. II. SnO_2 deposited on SiO_2 366 (1996) 545
V.M. Jiménez, J.P. Espinós and A.R. González-Elipe, Interface effects for metal oxide thin films deposited on another metal oxide. III. SnO and SnO_2 deposited on MgO(100) and the use of chemical state plots 366 (1996) 556
T. Fujii, D. Alders, F.C. Voogt, T. Hibma, B.T. Thole and G.A. Sawatzky, In situ RHEED and XPS studies of epitaxial thin α-$Fe2O_3(0001)$ films on sapphire 366 (1996) 579

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Infrared absorption spectroscopy

J. Lauterbach, R.W. Boyle, M. Schick, W.J. Mitchell, B. Meng and W.H. Weinberg, Erratum to "The adsorption of CO on Ir(111) investigated with FT-IRAS" [Surface Science 350 (1996) 32] 366 (1996) 228
A. Grossmann, W. Erley and H. Ibach, Erratum to "CO on Ni(100): observation of a high-frequency IR band at 2200 cm^{-1}" [Surface Science 355 (1996) L331] 366 (1996) L742

Near edge extended X-ray absorption fine structure (NEXAFS)

H. Raza, S.P. Harte, C.A. Muryn, P.L. Wincott, G. Thornton, R. Casanova and A. Rodriguez, NEXAFS studies of the reaction of SO_2 with $TiO_2(100)$-(1×1) and -(1×3) 366 (1996) 519

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V.R. Dhanak, S.P. Harte, G. Scarel, B.C.C. Cowie and A. Santoni, Structure determination of Rh(100)-$c(2 \times 2)$-S using the surface extended X-ray absorption fine structure technique 366 (1996) L765

Scanning tunneling microscopy

X.F. Lin, I. Chizhov, H.A. Mai and R.F. Willis, Interaction of Sn atoms with the intrinsic dangling-bond states of Si(111)-(7×7) 366 (1996) 51
R.M. Tsong, M. Schmid, C. Nagl, P. Varga, R.F. Davis and I.S.T. Tsong, Scanning tunneling microscopy studies of niobium carbide (100) and (110) surfaces 366 (1996) 85
D. Fujita, T. Yakabe, H. Nejoh, T. Sato and M. Iwatsuki, Scanning tunneling microscopy study on the initial adsorption behavior of C_{60} molecules on a reconstructed Au(111)-$(23 \times \sqrt{3})$ surface at various temperatures 366 (1996) 93
C. Ballif, M. Regula, M. Remškar, R. Sanjinés and F. Lévy, Nanoscopic trigonal pyramidal crystallites in WS_{2-x} sputtered thin f l ms: a scanning tunnelling microscopy study of initial growth 366 (1996) L703
A. Yajima and M. Tsukada, Theoretical simulation of STM image of C_{60} molecules on Si(100)-(2×1) surface 366 (1996) L715
S. Speller, J. Kuntze, T. Rauch, J. Bömermann, M. Huck, M. Aschoff and W. Heiland, The (1×2) and (1×4) structure on clean Pt(110) studied by STM, AES and LEED 366 (1996) 251
D.E. Bürgler, C.M. Schmidt, J.A. Wolf, T.M. Schaub and H.-J. Güntherodt, Ag films on Fe/GaAs(001): from clean surfaces to atomic Ga structures 366 (1996) 295
X.H. Wu and E.L. Wolf, Predicted carbon-cluster field evaporation from graphite by pulsed-field STM 366 (1996) 353

X. Yao, T.G. Ruskell, R.K. Workman, D. Sarid and D. Chen, Scanning tunneling microscopy and spectroscopy of individual C_{60} molecules on Si(100)-(2 × 1) surfaces 366 (1996) L743

T.J. Minvielle, R.L. White, M.L. Hildner and R.J. Wilson, Temperature dependence of the epitaxial growth of Pt on basal-plane sapphire 366 (1996) L755

J.-Y. Grand, T. Kunstmann, D. Hoffmann, A. Haas, M. Dietsche, J. Seifritz and R. Möller, Epitaxial growth of copper phthalocyanine monolayers on Ag(111) 366 (1996) 403

J.A. Mártin-Gago, J.M. Gómez-Rodríguez and J.Y. Veuillen, Growth and morphology of epitaxial $ErSi_{1.7}$ films on Si(111)7 × 7 studied y scanning tunneling microscopy 366 (1996) 491

E. Schaar-Gabriel, N. Alonso-Vante and H. Tributsch, STM-photoeffects mediated by water adsorption on photocatalytic (RuS_2, TiO_2) materials 366 (1996) 508

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X.F. Lin, I. Chizhov, H.A. Mai and R.F. Willis, Interaction of Sn atoms with the intrinsic dangling-bond states of Si(111)-(7 × 7) 366 (1996) 51

X. Yao, T.G. Ruskell, R.K. Workman, D. Sarid and D. Chen, Scanning tunneling microscopy and spectroscopy of individual C_{60} molecules on Si(100)-(2 × 1) surfaces 366 (1996) L743

E. Schaar-Gabriel, N. Alonso-Vante and H. Tributsch, STM-photoeffects mediated by water adsorption on photocatalytic (RuS_2, TiO_2) materials 366 (1996) 508

Secondary ion mass spectroscopy

A. Delcorte, P. Bertrand, X. Arys, A. Jonas, E. Wischerhoff, B. Mayer and A. Laschewsky, ToF-SIMS study of alternate polyelectrolyte thin films: Chemical surface characterization and molecular secondary ions sampling depth 366 (1996) 149

M.C. Yang, C.H. Hwang, J.K. Ku and H. Kang, Molecular adsorbate detection using hyperthermal Cs^+ surface scattering: chemisorbed water on Si(111) 366 (1996) L719

A.W. Fortuin, P.F.A. Alkemade, A.H. Verbruggen, A.J. Steinfort, H. Zandbergen and S. Radelaar, Characterization of single-crystalline Al films grown on Si(111) 366 (1996) 285

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P.M. Marcus, Epitaxial strain and epitaxial bending 366 (1996) 219

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C. Ballif, M. Regula, M. Remškar, R. Sanjinés and F. Lévy, Nanoscopic trigonal pyramidal crystallites in WS_{2-x} sputtered thin f l ms: a scanning tunnelling microscopy study of initial growth 366 (1996) L703

Thermal desorption spectroscopy

S.Y. Li, J.A. Rodriguez, J. Hrbek, H.H. Huang and G.-Q. Xu, Reaction of hydrogen with S/Mo(110) and MoS_x films: formation of hydrogen sulfide 366 (1996) 29

J. Lauterbach, R.W. Boyle, M. Schick, W.J. Mitchell, B. Meng and W.H. Weinberg, Erratum to "The adsorption of CO on Ir(111) investigated with FT-IRAS" [Surface Science 350 (1996) 32] 366 (1996) 228

P.D. Cobden, N.M.H. Janssen, Y. van Breugel and B.E. Nieuwenhuys, Non-linear behaviour in the NO–H_2 reaction over Rh(111) 366 (1996) 432

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J. Kołaczkiewicz and E. Bauer, Behaviour of Rh, Pd, Ir and Pt on the W(110) face above room temperature 366 (1996) 71

X-ray scattering, diffraction, and reflection

H. Dosch, A. Lied and J.H. Bilgram, Disruption of the hydrogen-bonding network at the surface of I_h ice near surface premelting 366 (1996) 43

J. Lüdecke, A.R.H.F. Ettema, S.M. Driver, G. Scragg, M. Kerkar, D.P. Woodruff, B.C.C. Cowie, R.G. Jones and S. Bastow, The structure of sulphur adsorption phases on Ni(111) studied by X-ray standing wavefield absorption 366 (1996) 260

A.W. Fortuin, P.F.A. Alkemade, A.H. Verbruggen, A.J. Steinfort, H. Zandbergen and S. Radelaar, Characterization of single-crystalline Al films grown on Si(111) 366 (1996) 285

Y. Yoneda, K. Sakaue, H. Kato and H. Terauchi, Lattice distortion of an $In_{0.2}Ga_{0.8}As$/GaAs superlattice 366 (1996) 337

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Adhesion

A. Delcorte, P. Bertrand, X. Arys, A. Jonas, E. Wischerhoff, B. Mayer and A. Laschewsky, ToF-SIMS study of alternate polyelectrolyte thin films: Chemical surface characterization and molecular secondary ions sampling depth 366 (1996) 149

Adsorption kinetics

J.I. Colonell, T.J. Curtiss and S.J. Sibener, Coverage dependence of the kinetics for H_2 desorption from Rh(111) 366 (1996) 19

F. Moiny, R. Pistis, M. Dumont and R. Dagonnier, Surface reaction kinetics and chemisorption-induced surface restructuring 366 (1996) 360

G. Eilmsteiner and A. Winkler, Rovibrational state distribution of deuterium molecules resulting from D-atom interaction with Ni(110) 366 (1996) L750

A.T. Pasteur, X.-C. Guo, T. Ali, M. Gruyters and D.A. King, Characterisation and O_2 titration of CO islands on Pt{100}: helium atom scattering and reactive sticking probability measurements 366 (1996) 564

G.F. Cerofolini, Adsorption kinetics and equilibria on reconstructable surfaces 366 (1996) 597

Atom emission

M.C. Yang, C.H. Hwang, J.K. Ku and H. Kang, Molecular adsorbate detection using hyperthermal Cs^+ surface scattering: chemisorbed water on Si(111) 366 (1996) L719

Atom–solid interactions

S. Miret-Artés, Multiphonon contributions to diffracted intensities and resonance profiles in atom–surface scattering 366 (1996) L681

A. Aničić and B. Gumhalter, Assessment of the role of quantal effects in the dynamics of stimulated desorption 366 (1996) 193

E.A. Khramtsova, A.A. Saranin, K.V. Ignatovich and V.G. Lifshits, Comparative study of the atomic hydrogen interaction with Si(110)"4 × 6"-Al and Si(111)$\sqrt{3} \times \sqrt{3}$-Al surfaces 366 (1996) 501

Auger ejection

H. Müller and V. Kempter, Modeling the ion impact electron spectra from slow H^+ and O^+ collisons with clean and alkalated W(110) surfaces 366 (1996) 343

Catalysis

S.Y. Li, J.A. Rodriguez, J. Hrbek, H.H. Huang and G.-Q. Xu, Reaction of hydrogen with S/Mo(110) and MoS_x films: formation of hydrogen sulfide 366 (1996) 29

A. Michalak, K. Hermann and M. Witko, Reactive oxygen sites at MoO_3 surfaces: ab initio cluster model studies 366 (1996) 323

V.R. Dhanak, S.P. Harte, G. Scarel, B.C.C. Cowie and A. Santoni, Structure determination of Rh(100)-c(2 × 2)-S using the surface extended X-ray absorption fine structure technique 366 (1996) L765

V.M. Jiménez, J.A. Mejías, J.P. Espinós and A.R. González-Elipe, Interface effects for metal oxide thin films depo i ted on another metal oxide. II. SnO_2 deposited on SiO_2 366 (1996) 545

V.M. Jiménez, J.P. Espinós and A.R. González-Elipe, Interface effects for metal oxide thin films deposited on another metal oxide. III. SnO and SnO_2 deposited on MgO(100) and the use of chemical state plots 366 (1996) 556

A.T. Pasteur, X.-C. Guo, T. Ali, M. Gruyters and D.A. King, Characterisation and O2 titration of CO islands on Pt{100}: helium atom scattering and reactive sticking probability measurements 366 (1996) 564

Chemisorption

O. Henrion, T. Löher, A. Klein, C. Pettenkofer and W. Jaegermann, Low temperature adsorption of water on cleaved GaAs(110) surfaces 366 (1996) L685

X.F. Lin, I. Chizhov, H.A. Mai and R.F. Willis, Interaction of Sn atoms with the intrinsic dangling-bond states of Si(111)-(7 × 7) 366 (1996) 51

D. Fujita, T. Yakabe, H. Nejoh, T. Sato and M. Iwatsuki, Scanning tunneling microscopy study on the initial adsorption behavior of C_{60} molecules on a reconstructed Au(111)-(23 × $\sqrt{3}$) surface at various temperatures 366 (1996) 93

K. Svensson, I. Rickardsson, C. Nyberg and S. Andersson, Step site adsorption and ordering of CO on Ni(510) and Pd(510) 366 (1996) 140

M. Ohno and W. von Niessen, Theoretical study of the valence level photoemission spectrum of C_2H_2 adsorbed on a Ni metal surface 366 (1996) 209

J. Lauterbach, R.W. Boyle, M. Schick, W.J. Mitchell, B. Meng and W.H. Weinberg, Erratum to "The adsorption of CO on Ir(111) investigated with FT-IRAS" [Surface Science 350 (1996) 32] 366 (1996) 228

A. Yajima and M. Tsukada, Theoretical simulation of STM image of C_{60} molecules on Si(100)-(2 × 1) surface 366 (1996) L715

A. Grossmann, W. Erley and H. Ibach, Erratum to "CO on Ni(100): observation of a high-frequency IR band at 2200 cm^{-1}" [Surface Science 355 (1996) L331] 366 (1996) L742

J. Lüdecke, A.R.H.F. Ettema, S.M. Driver, G. Scragg, M. Kerkar, D.P. Woodruff, B.C.C. Cowie, R.G. Jones and S. Bastow, The structure of sulphur adsorption phases on Ni(111) studied by X-ray standing wavefield absorption 366 (1996) 260

M. Eckhardt, J. Chrost and D. Fick, Adsorption of Li on Si(111) influenced by the phase transition (7 × 7)↔(1 × 1) 366 (1996) 275

X. Yao, T.G. Ruskell, R.K. Workman, D. Sarid and D. Chen, Scanning tunneling microscopy and spectroscopy of individual C_{60} molecules on Si(100)-(2 × 1) surfaces 366 (1996) L743

G. Kern, J. Hafner and G. Kresse, Atomic and electronic structure of diamond (111) surfaces. I. Reconstruction and hydrogen-induced de-reconstruction of the one dangling-bond surface 366 (1996) 445

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J. Kołaczkiewicz and E. Bauer, Behaviour of Rh, Pd, Ir and Pt on the W(110) face above room temperature 366 (1996) 71

V.R. Dhanak, S.P. Harte, G. Scarel, B.C.C. Cowie and A. Santoni, Structure determination of Rh(100)-c(2 × 2)-S using the surface extended X-ray absorption fine structure technique 366 (1996) L765

P.D. Cobden, N.M.H. Janssen, Y. van Breugel and B.E. Nieuwenhuys, Non-linear behaviour in the NO–H_2 reaction over Rh(111) 366 (1996) 432

Silicon

X.F. Lin, I. Chizhov, H.A. Mai and R.F. Willis, Interaction of Sn atoms with the intrinsic dangling-bond states of Si(111)-(7 × 7) 366 (1996) 51

P.C.L. Stephenson, M.W. Radny and P.V. Smith, A modified Stillinger–Weber potential for modelling silicon surfaces 366 (1996) 177

K.D. Lee, C.Y. Kim and J.W. Chung, Evidence of substrate metallization by Li adsorption on the Si(001) surface 366 (1996) L709

A. Yajima and M. Tsukada, Theoretical simulation of STM image of C_{60} molecules on Si(100)-(2 × 1) surface 366 (1996) L715

M.C. Yang, C.H. Hwang, J.K. Ku and H. Kang, Molecular adsorbate detection using hyperthermal Cs^+ surface scattering: chemisorbed water on Si(111) 366 (1996) L719

M. Eckhardt, J. Chrost and D. Fick, Adsorption of Li on Si(111) influenced by the phase transition (7 × 7)↔(1 × 1) 366 (1996) 275

A.W. Fortuin, P.F.A. Alkemade, A.H. Verbruggen, A.J. Steinfort, H. Zandbergen and S. Radelaar, Characterization of single-crystalline Al films grown on Si(111) 366 (1996) 285
X. Yao, T.G. Ruskell, R.K. Workman, D. Sarid and D. Chen, Scanning tunneling microscopy and spectroscopy of individual C_{60} molecules on Si(100)-(2 × 1) surfaces 366 (1996) L743
C.M. Aldao, J.L. Iguain and H.O. Mártin, A steady-state approach to determine diffusion coefficients: the migration of silicon on the Si(100) surface 366 (1996) 483
J.A. Mártin-Gago, J.M. Gómez-Rodríguez and J.Y. Veuillen, Growth and morphology of epitaxial $ErSi_{1.7}$ films on Si(111)7 × 7 studied y scanning tunneling microscopy 366 (1996) 491
E.A. Khramtsova, A.A. Saranin, K.V. Ignatovich and V.G. Lifshits, Comparative study of the atomic hydrogen interaction with Si(110)"4 × 6"-Al and Si(111)$\sqrt{3} \times \sqrt{3}$-Al surfaces 366 (1996) 501

Silver

D.E. Bürgler, C.M. Schmidt, J.A. Wolf, T.M. Schaub and H.-J. Güntherodt, Ag films on Fe/GaAs(001): from clean surfaces to atomic Ga structures 366 (1996) 295
F. Hontinfinde, R. Ferrando and A.C. Levi, Diffusion processes relevant to the epitaxial growth of Ag on Ag(110) 366 (1996) 306

Sulphur

V.R. Dhanak, S.P. Harte, G. Scarel, B.C.C. Cowie and A. Santoni, Structure determination of Rh(100)-c(2 × 2)-S using the surface extended X-ray absorption fine structure technique 366 (1996) L765

Tin

X.F. Lin, I. Chizhov, H.A. Mai and R.F. Willis, Interaction of Sn atoms with the intrinsic dangling-bond states of Si(111)-(7 × 7) 366 (1996) 51

Tungsten

I. Vattulainen, J. Merikoski, T. Ala-Nissila and S.C. Ying, Non-equilibrium surface diffusion in the O/W(110) system 366 (1996) L697
H. Müller and V. Kempter, Modeling the ion impact electron spectra from slow H^+ and O^+ collisons with clean and alkalated W(110) surfaces 366 (1996) 343

Compounds (non-molecular solids)

Alloys

R.-P. Blum, D. Ahlbehrendt and H. Niehus, Preparation-dependent surface composition and structure of NiAl(001): SPA-LEED and NICISS study 366 (1996) 107
S.W. Bonham and C.P. Flynn, Resonant RHEED study of Cu_3Au(111) surface order 366 (1996) L760

Aluminum oxide

T.J. Minvielle, R.L. White, M.L. Hildner and R.J. Wilson, Temperature dependence of the epitaxial growth of Pt on basal-plane sapphire 366 (1996) L755

Calcium difluoride

M. Reichling, R.M. Wilson, R. Bennewitz, R.T. Williams, S. Gogoll, E. Stenzel and E. Matthias, Surface colloid evolution during low-energy electron irradiation of CaF_2(111) 366 (1996) 531

Carbides

R.M. Tsong, M. Schmid, C. Nagl, P. Varga, R.F. Davis and I.S.T. Tsong, Scanning tunneling microscopy studies of niobium carbide (100) and (110) surfaces 366 (1996) 85

Cu-phthalocyanine

J.-Y. Grand, T. Kunstmann, D. Hoffmann, A. Haas, M. Dietsche, J. Seifritz and R. Möller, Epitaxial growth of copper phthalocyanine monolayers on Ag(111) 366 (1996) 403

Gallium arsenide

O. Henrion, T. Löher, A. Klein, C. Pettenkofer and W. Jaegermann, Low temperature adsorption of water on cleaved GaAs(110) surfaces 366 (1996) L685
L.Ö. Olsson, M. Björkqvist, J. Kanski, L. Ilver and P.O. Nilsson, Surface electronic structure of GaAs(311)A studied by angle-resolved photoelectron spectroscopy 366 (1996) 121
D.E. Bürgler, C.M. Schmidt, J.A. Wolf, T.M. Schaub and H.-J. Güntherodt, Ag films on Fe/GaAs(001): from clean surfaces to atomic Ga structures 366 (1996) 295
Y. Yoneda, K. Sakaue, H. Kato and H. Terauchi, Lattice distortion of an $In_{0.2}Ga_{0.8}As$/GaAs superlattice 366 (1996) 337

Indium arsenide

Y. Yoneda, K. Sakaue, H. Kato and H. Terauchi, Lattice distortion of an $In_{0.2}Ga_{0.8}As$/GaAs superlattice 366 (1996) 337

Indium phosphide

G.C. Hsueh, C.M. Reaves, S.P. DenBaars and W.H. Weinberg, Power spectral density analysis of strain-induced InP islands on GaInP/GaAs(100) 366 (1996) 129

Iron oxide

T. Fujii, D. Alders, F.C. Voogt, T. Hibma, B.T. Thole and G.A. Sawatzky, In situ RHEED and XPS studies of epitaxial thin α-Fe_2O_3(0001) films on sapphire 366 (1996) 579

Magnesium oxides

V.M. Jiménez, J.P. Espinós and A.R. González-Elipe, Interface effects for metal oxide thin films deposited on another metal oxide. III. SnO and SnO_2 deposited on MgO(100) and the use of chemical state plots 366 (1996) 556

Molybdenum oxides

A. Michalak, K. Hermann and M. Witko, Reactive oxygen sites at MoO3 surfaces: ab initio cluster model studies 366 (1996) 323

Ruthenium disulphide

E. Schaar-Gabriel, N. Alonso-Vante and H. Tributsch, STM-photoeffects mediated by water adsorption on photocatalytic (RuS_2, TiO_2) materials 366 (1996) 508

Silicides

J.A. Mártin-Gago, J.M. Gómez-Rodríguez and J.Y. Veuillen, Growth and morphology of epitaxial $ErSi_{1.7}$ films on Si(111)7 × 7 studied y scanning tunneling microscopy 366 (1996) 491

Silicon oxides

V.M. Jiménez, J.A. Mejías, J.P. Espinós and A.R. González-Elipe, Interface effects for metal oxide thin films depo i ted on another metal oxide. II. SnO_2 deposited on SiO_2 366 (1996) 545

Sulphides

S.Y. Li, J.A. Rodriguez, J. Hrbek, H.H. Huang and G.-Q. Xu, Reaction of hydrogen with S/Mo(110) and MoS_x films: formation of hydrogen sulfide 366 (1996) 29

Tin oxides

V.M. Jiménez, J.A. Mejías, J.P. Espinós and A.R. González-Elipe, Interface effects for metal oxide thin films depo i ted on another metal oxide. II. SnO_2 deposited on SiO_2 366 (1996) 545

V.M. Jiménez, J.P. Espinós and A.R. González-Elipe, Interface effects for metal oxide thin films deposited on another metal oxide. III. SnO and SnO_2 deposited on MgO(100) and the use of chemical state plots 366 (1996) 556

Titanium dioxide

Q. Guo, I. Cocks and E.M. Williams, ESDIAD and LEED studies of the clean TiO2(100) surface 366 (1996) 99

E. Schaar-Gabriel, N. Alonso-Vante and H. Tributsch, STM-photoeffects mediated by water adsorption on photocatalytic (RuS_2, TiO_2) materials 366 (1996) 508

Titanium oxide

H. Raza, S.P. Harte, C.A. Muryn, P.L. Wincott, G. Thornton, R. Casanova and A. Rodriguez, NEXAFS studies of the reaction of SO_2 with TiO_2(100)-(1 × 1) and -(1 × 3) 366 (1996) 519

Tungsten sulphide

C. Ballif, M. Regula, M. Remškar, R. Sanjinés and F. Lévy, Nanoscopic trigonal pyramidal crystallites in WS_{2-x} sputtered thin f l ms: a scanning tunnelling microscopy study of initial growth 366 (1996) L703

Molecules

Alkynes

M. Ohno and W. von Niessen, Theoretical study of the valence level photoemission spectrum of C_2H_2 adsorbed on a Ni metal surface 366 (1996) 209

Carbon monoxide

K. Svensson, I. Rickardsson, C. Nyberg and S. Andersson, Step site adsorption and ordering of CO on Ni(510) and Pd(510) 366 (1996) 140

J. Lauterbach, R.W. Boyle, M. Schick, W.J. Mitchell, B. Meng and W.H. Weinberg, Erratum to "The adsorption of CO on Ir(111) investigated with FT-IRAS" [Surface Science 350 (1996) 32] 366 (1996) 228

A. Grossmann, W. Erley and H. Ibach, Erratum to "CO on Ni(100): observation of a high-frequency IR band at 2200 cm^{-1}" [Surface Science 355 (1996) L331] 366 (1996) L742

Deuterium

G. Eilmsteiner and A. Winkler, Rovibrational state distribution of deuterium molecules resulting from D-atom interaction with Ni(110) 366 (1996) L750

Fullerenes

D. Fujita, T. Yakabe, H. Nejoh, T. Sato and M. Iwatsuki, Scanning tunneling microscopy study on the initial adsorption behavior of C_{60} molecules on a reconstructed Au(111)-(23 × $\sqrt{3}$) surface at various temperatures 366 (1996) 93

A. Yajima and M. Tsukada, Theoretical simulation of STM image of C_{60} molecules on Si(100)-(2 × 1) surface 366 (1996) L715

X. Yao, T.G. Ruskell, R.K. Workman, D. Sarid and D. Chen, Scanning tunneling microscopy and spectroscopy of individual C_{60} molecules on Si(100)-(2 × 1) surfaces 366 (1996) L743

Hydrogen

J.I. Colonell, T.J. Curtiss and S.J. Sibener, Coverage dependence of the kinetics for H_2 desorption from Rh(111) 366 (1996) 19

S.Y. Li, J.A. Rodriguez, J. Hrbek, H.H. Huang and G.-Q. Xu, Reaction of hydrogen with S/Mo(110) and MoS_x films: formation of hydrogen sulfide 366 (1996) 29

Hydrogen sulphide

S.Y. Li, J.A. Rodriguez, J. Hrbek, H.H. Huang and G.-Q. Xu, Reaction of hydrogen with S/Mo(110) and MoS_x films: formation of hydrogen sulfide 366 (1996) 29

J. Lüdecke, A.R.H.F. Ettema, S.M. Driver, G. Scragg, M. Kerkar, D.P. Woodruff, B.C.C. Cowie, R.G. Jones and S. Bastow, The structure of sulphur adsorption phases on Ni(111) studied by X-ray standing wavefield absorption 366 (1996) 260

Nitrogen oxides

P.D. Cobden, N.M.H. Janssen, Y. van Breugel and B.E. Nieuwenhuys, Non-linear behaviour in the NO–H_2 reaction over Rh(111) 366 (1996) 432

Oxygen

R. Franchy, T.U. Bartke and P. Gassmann, The interaction of oxygen with Nb(110) at 300, 80 and 20 K 366 (1996) 60

I. Vattulainen, J. Merikoski, T. Ala-Nissila and S.C. Ying, Non-equilibrium surface diffusion in the O/W(110) system 366 (1996) L697

Sulphur dioxide

H. Raza, S.P. Harte, C.A. Muryn, P.L. Wincott, G. Thornton, R. Casanova and A. Rodriguez, NEXAFS studies of the reaction of SO_2 with TiO_2(100)-(1 × 1) and -(1 × 3) 366 (1996) 519

Water

H. Dosch, A. Lied and J.H. Bilgram, Disruption of the hydrogen-bonding network at the surface of I_h ice near surface premelting 366 (1996) 43

M.C. Yang, C.H. Hwang, J.K. Ku and H. Kang, Molecular adsorbate detection using hyperthermal Cs^+ surface scattering: chemisorbed water on Si(111) 366 (1996) L719

E. Schaar-Gabriel, N. Alonso-Vante and H. Tributsch, STM-photoeffects mediated by water adsorption on photocatalytic (RuS_2, TiO_2) materials 366 (1996) 508

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G.F. Cerofolini, Adsorption kinetics and equilibria on reconstructable surfaces 366 (1996) 597

Single crystal surfaces

O. Henrion, T. Löher, A. Klein, C. Pettenkofer and W. Jaegermann, Low temperature adsorption of water on cleaved GaAs(110) surfaces 366 (1996) L685

A. Aničić and B. Gumhalter, Assessment of the role of quantal effects in the dynamics of stimulated desorption 366 (1996) 193

T.-Y. Fu, Y.-R. Tzeng and T.T. Tsong, Step edge diffusion and the structure of nanometer-size Ir islands on the Ir(111) surface 366 (1996) L691

A. Michalak, K. Hermann and M. Witko, Reactive oxygen sites at MoO_3 surfaces: ab initio cluster model studies 366 (1996) 323

G. Eilmsteiner and A. Winkler, Rovibrational state distribution of deuterium molecules resulting from D-atom interaction with Ni(110) 366 (1996) L750

P.D. Cobden, N.M.H. Janssen, Y. van Breugel and B.E. Nieuwenhuys, Non-linear behaviour in the NO–H_2 reaction over Rh(111) 366 (1996) 432

Low index single crystal surfaces

P. Zeppenfeld, M. Büchel, J. Goerge, R. David, G. Comsa, Ch. Ramseyer and C. Girardet, Structure and phase transitions of xenon monolayers on Cu(110) 366 (1996) 1

J.I. Colonell, T.J. Curtiss and S.J. Sibener, Coverage dependence of the kinetics for H_2 desorption from Rh(111) 366 (1996) 19

R.M. Tsong, M. Schmid, C. Nagl, P. Varga, R.F. Davis and I.S.T. Tsong, Scanning tunneling microscopy studies of niobium carbide (100) and (110) surfaces 366 (1996) 85

D. Fujita, T. Yakabe, H. Nejoh, T. Sato and M. Iwatsuki, Scanning tunneling microscopy study on the initial adsorption behavior of C_{60} molecules on a reconstructed Au(111)-(23 × $\sqrt{3}$) surface at various temperatures 366 (1996) 93

R.-P. Blum, D. Ahlbehrendt and H. Niehus, Preparation-dependent surface composition and structure of NiAl(001): SPA-LEED and NICISS study 366 (1996) 107

L.Ö. Olsson, M. Björkqvist, J. Kanski, L. Ilver and P.O. Nilsson, Surface electronic structure of GaAs(311)A studied by angle-resolved photoelectron spectroscopy 366 (1996) 121

P.C.L. Stephenson, M.W. Radny and P.V. Smith, A modified Stillinger–Weber potential for modelling silicon surfaces 366 (1996) 177

J. Lauterbach, R.W. Boyle, M. Schick, W.J. Mitchell, B. Meng and W.H. Weinberg, Erratum to "The adsorption of CO on Ir(111) investigated with FT-IRAS" [Surface Science 350 (1996) 32] 366 (1996) 228

M.C. Yang, C.H. Hwang, J.K. Ku and H. Kang, Molecular adsorbate detection using hyperthermal Cs^+ surface scattering: chemisorbed water on Si(111) 366 (1996) L719

A. Grossmann, W. Erley and H. Ibach, Erratum to "CO on Ni(100): observation of a high-frequency IR band at 2200 cm^{-1}" [Surface Science 355 (1996) L331] 366 (1996) L742

S. Speller, J. Kuntze, T. Rauch, J. Bömermann, M. Huck, M. Aschoff and W. Heiland, The (1 × 2) and (1 × 4) structure on clean Pt(110) studied by STM, AES and LEED 366 (1996) 251

J. Lüdecke, A.R.H.F. Ettema, S.M. Driver, G. Scragg, M. Kerkar, D.P. Woodruff, B.C.C. Cowie, R.G. Jones and S. Bastow, The structure of sulphur adsorption phases on Ni(111) studied by X-ray standing wavefield absorption 366 (1996) 260

S.W. Bonham and C.P. Flynn, Resonant RHEED study of Cu_3Au(111) surface order 366 (1996) L760

G. Kern, J. Hafner and G. Kresse, Atomic and electronic structure of diamond (111) surfaces. I. Reconstruction and hydrogen-induced de-reconstruction of the one dangling-bond surface 366 (1996) 445

G. Kern, J. Hafner and G. Kresse, Atomic and electronic structure of diamond (111) surfaces. II. (2 × 1) and ($\sqrt{3}$ × $\sqrt{3}$) reconstructions of the clean and hydrogen-covered three dangling-bond surfaces 366 (1996) 464

H. Raza, S.P. Harte, C.A. Muryn, P.L. Wincott, G. Thornton, R. Casanova and A. Rodriguez, NEXAFS studies of the reaction of SO_2 with TiO_2(100)-(1 × 1) and -(1 × 3) 366 (1996) 519

Stepped single crystal surfaces

K. Svensson, I. Rickardsson, C. Nyberg and S. Andersson, Step site adsorption and ordering of CO on Ni(510) and Pd(510) 366 (1996) 140

T.-Y. Fu, Y.-R. Tzeng and T.T. Tsong, Step edge diffusion and the structure of nanometer-size Ir islands on the Ir(111) surface 366 (1996) L691

G.E. Makhmetov, A.G. Borisov, D.Teillet-Billy and J.P. Gauyacq, Resonant charge transfer in grazing atom–metal surface collisions: effect of the presence of steps on the surface 366 (1996) L769

P. Hecquet and B. Salanon, Step interactions and surface stability for Cu vicinals 366 (1996) 415

M. Reichling, R.M. Wilson, R. Bennewitz, R.T. Williams, S. Gogoll, E. Stenzel and E. Matthias, Surface colloid evolution during low-energy electron irradiation of CaF_2(111) 366 (1996) 531

A.M. Molenbroek and J.W.M. Frenken, Surface-melting induced faceting of aluminium 366 (1996) 587

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Crystalline–amorphous interfaces

M.E. Bowden, D.A. Jefferson and I.W.M. Brown, In-situ observation of perovskite formation on the surface of $Sr_3La_2Ti_2O_{10}$ 366 (1996) 317

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V.M. Jiménez, J.A. Mejías, J.P. Espinós and A.R. González-Elipe, Interface effects for metal oxide thin films depo i ted on another metal oxide. II. SnO_2 deposited on SiO_2 366 (1996) 545

V.M. Jiménez, J.P. Espinós and A.R. González-Elipe, Interface effects for metal oxide thin films deposited on another metal oxide. III. SnO and SnO_2 deposited on MgO(100) and the use of chemical state plots 366 (1996) 556

Single crystal epitaxy

A.W. Fortuin, P.F.A. Alkemade, A.H. Verbruggen, A.J. Steinfort, H. Zandbergen and S. Radelaar, Characterization of single-crystalline Al films grown on Si(111) 366 (1996) 285

D.E. Bürgler, C.M. Schmidt, J.A. Wolf, T.M. Schaub and H.-J. Güntherodt, Ag films on Fe/GaAs(001): from clean surfaces to atomic Ga structures 366 (1996) 295

K.W. Jacobsen, P. Stoltze and J.K. Nørskov, A semi-empirical effective medium theory for metals and alloys 366 (1996) 394

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Y. Yoneda, K. Sakaue, H. Kato and H. Terauchi, Lattice distortion of an In0.2$Ga_{0.8}$As/GaAs superlattice 366 (1996) 337

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X.F. Lin, I. Chizhov, H.A. Mai and R.F. Willis, Interaction of Sn atoms with the intrinsic dangling-bond states of Si(111)-(7 × 7) 366 (1996) 51

J. Kołaczkiewicz and E. Bauer, Behaviour of Rh, Pd, Ir and Pt on the W(110) face above room temperature 366 (1996) 71

P.C.L. Stephenson, M.W. Radny and P.V. Smith, A modified Stillinger–Weber potential for modelling silicon surfaces 366 (1996) 177

M. Ohno and W. von Niessen, Theoretical study of the valence level photoemission spectrum of C_2H_2 adsorbed on a Ni metal surface 366 (1996) 209

D.E. Bürgler, C.M. Schmidt, J.A. Wolf, T.M. Schaub and H.-J. Güntherodt, Ag films on Fe/GaAs(001): from clean surfaces to atomic Ga structures 366 (1996) 295

G. Kern, J. Hafner and G. Kresse, Atomic and electronic structure of diamond (111) surfaces. I. Reconstruction and hydrogen-induced de-reconstruction of the one dangling-bond surface 366 (1996) 445

G. Kern, J. Hafner and G. Kresse, Atomic and electronic structure of diamond (111) surfaces. II. (2 × 1) and ($\sqrt{3} \times \sqrt{3}$) reconstructions of the clean and hydrogen-covered three dangling-bond surfaces 366 (1996) 464

Clusters

X.H. Wu and E.L. Wolf, Predicted carbon-cluster field evaporation from graphite by pulsed-field STM 366 (1996) 353

Coatings

A. Delcorte, P. Bertrand, X. Arys, A. Jonas, E. Wischerhoff, B. Mayer and A. Laschewsky, ToF-SIMS study of alternate polyelectrolyte thin films: Chemical surface characterization and molecular secondary ions sampling depth 366 (1996) 149

ELECTRICAL AND MAGNETIC BEHAVIOR

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Magnetic surfaces

T.J. Minvielle, R.L. White, M.L. Hildner and R.J. Wilson, Temperature dependence of the epitaxial growth of Pt on basal-plane sapphire 366 (1996) L755

Metallic surfaces

A. Aničić and B. Gumhalter, Assessment of the role of quantal effects in the dynamics of stimulated desorption 366 (1996) 193

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M. Eckhardt, J. Chrost and D. Fick, Adsorption of Li on Si(111) influenced by the phase transition (7 × 7)↔(1 × 1) 366 (1996) 275

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Metal–metal interfaces

J. Kołaczkiewicz and E. Bauer, Behaviour of Rh, Pd, Ir and Pt on the W(110) face above room temperature 366 (1996) 71

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X.F. Lin, I. Chizhov, H.A. Mai and R.F. Willis, Interaction of Sn atoms with the intrinsic dangling-bond states of Si(111)-(7 × 7) 366 (1996) 51

K.D. Lee, C.Y. Kim and J.W. Chung, Evidence of substrate metallization by Li adsorption on the Si(001) surface 366 (1996) L709

Semiconductor–electrolyte interfaces

E. Schaar-Gabriel, N. Alonso-Vante and H. Tributsch, STM-photoeffects mediated by water adsorption on photocatalytic (RuS_2, TiO_2) materials 366 (1996) 508

Semiconductor–insulator interfaces

V.M. Jiménez, J.A. Mejías, J.P. Espinós and A.R. González-Elipe, Interface effects for metal oxide thin films depo i ted on another metal oxide. II. SnO_2 deposited on SiO_2 366 (1996) 545

V.M. Jiménez, J.P. Espinós and A.R. González-Elipe, Interface effects for metal oxide thin films deposited on another metal oxide. III. SnO and SnO_2 deposited on MgO(100) and the use of chemical state plots 366 (1996) 556

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Metal–metal nonmagnetic heterostructures

K.W. Jacobsen, P. Stoltze and J.K. Nørskov, A semi-empirical effective medium theory for metals and alloys 366 (1996) 394

Semiconductor–metal oxide thin film structures

V.M. Jiménez, J.A. Mejías, J.P. Espinós and A.R. González-Elipe, Interface effects for metal oxide thin films depo i ted on another metal oxide. II. SnO2 deposited on SiO_2 366 (1996) 545

V.M. Jiménez, J.P. Espinós and A.R. González-Elipe, Interface effects for metal oxide thin films deposited on another metal oxide. III. SnO and SnO_2 deposited on MgO(100) and the use of chemical state plots 366 (1996) 556